

FIG.1A

148	178	208	238	268	298
FRI-1	ALLVFLDIIIEWTTQETFPKYLHYDPETGRQLLCDKCAPGTYLKQHCTVRRKTL	CPD			
			:		:
SW: TNR2_HUMAN	HALPAQVAFTPYAPEPGSTCRRLREYYDQTAQMCCSKCSPGQHAKVFCTKTS	SDTVCDSCED			
			30	40	50
					60
					70
					80

328	YSYTDSWHTS
FRI-1	: : :
SW: TNR2_HUMAN	STYTQLWNWVPECLSCGSRSSDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPL
	90
	100
	110
	120
	130
	140

FIG.1B

FRI-1	69	YLHYDPETGRQLLCDKCAPGTYLKQHC.TVRRKTL	CV.PCPDY.SYTDSW
	 : .	
TNFR profile	6	YHYDQNGRMCEECHMCQPGHFLVKHCKQPKRDTVCHKPC	EPGVITYTDDW
FRI-1	116	H	
TNFR profile	56	H	

Z Score = 8.29

FIG. 1C

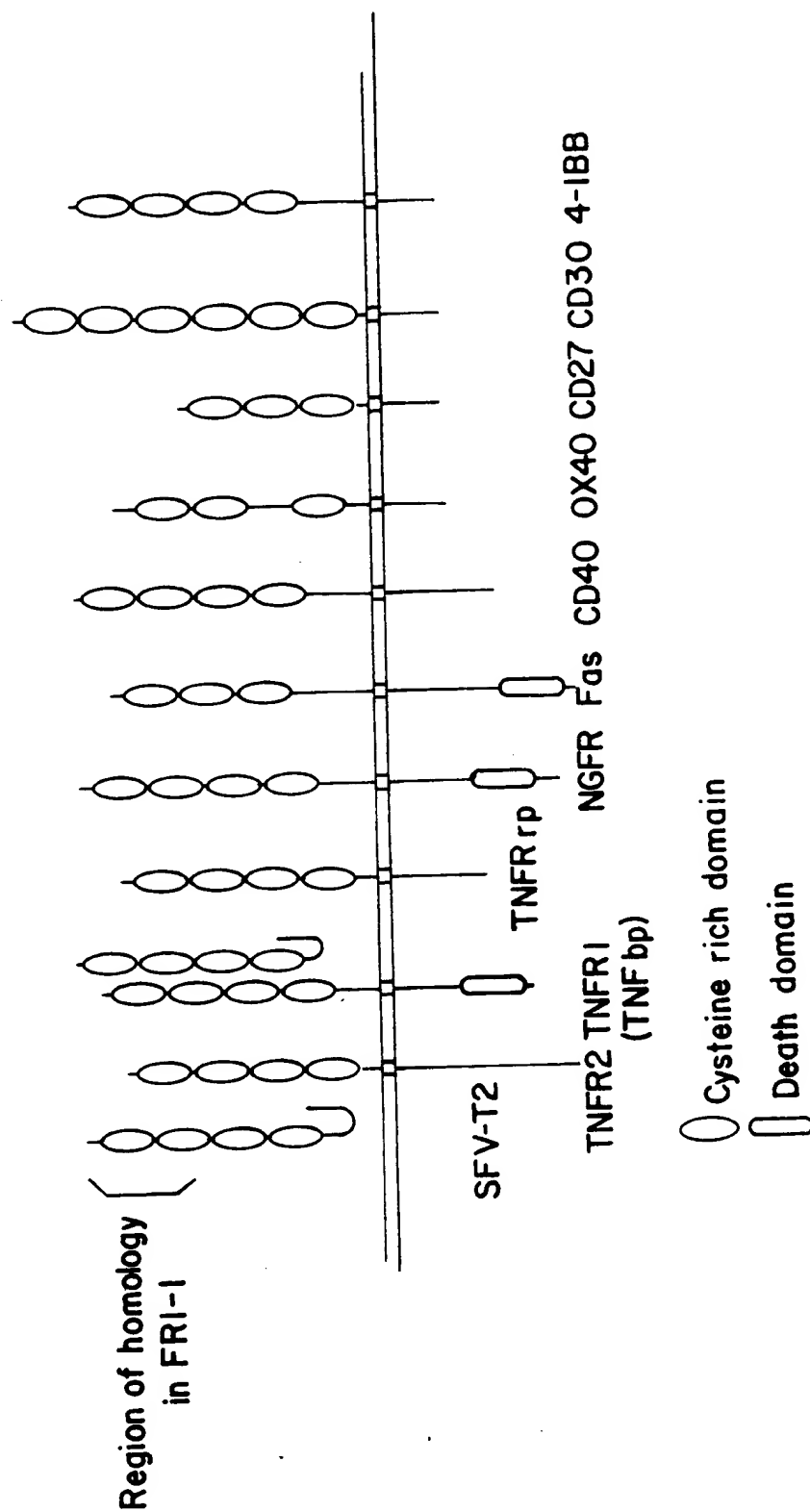


FIG.2A



FIG.2B

10 30 50
 ATCAAAGGCAGGGCATACTTCCTGTTGCCACAGACCTTATATAAAACGTCATGTTTCGCCTG
 70 90 110
 GGCAGCAGAGAAGCACCTAGCACTGGCCCAGCGGCTGCCGCCTGAGGTTTCCAGAGGACC
 130 150 170
 ACAATGAACAAGTGGCTGTGCTGTGCACTCCTGGTGTCTTGGACATCATTTGAATGGACA
 M N K W L C C A L L V F L D I I E W T
 190 210 230
 ACCCAGGAAACCTTTCCTCCAAAATACTTGCATTATGACCCAGAAACCGGACGTCAGCTC
 T Q E T P P P K Y L H Y D P E T G R Q L
 250 270 290
 TTGTGTGACAAATGTGCTCCTGGCACCTACCTAAAACAGCACTGCACAGTCAGGAGGAAG
 L C D K C A P G T Y L K Q H C T V R R K
 310 330 350
 ACACTGTGTGTCCTTGCCCTGACTACTCTTATACAGACAGCTGGCACACGAGTGATGAA
 T L C V P C P D Y S Y T D S W H T S D E
 370 390 410
 TGCGTGTACTGCAGCCCCGTGTGCAAGGAAGTGCAGACCGTGAAACAGGAGTGCAACCGC
 C V Y C S P V C K E L Q T V K Q E C N R
 430 450 470
 ACCCACAACCGAGTGTGCGAATGTGAGGAAGGGCGCTACCTGGAGCTCGAATTCTGCTTG
 T H N R V C E C E E G R Y L E L E F C L
 490 510 530
 AAGCACCGGAGCTGTCCCCCAGGCTTGGGTGTGCTGCAGGCTGGGACCCAGAGCGAAAC
 K H R S C P P G L G V L Q A G T P E R N
 550 570 590
 ACGGTTTGCAAAAGATGTCCGGATGGGTTCTTCTCAGGTGAGACGTCATCGAAAGCACCC
 T V C K R C P D G F F S G E T S S K A P
 610 630 650
 TGTAGGAAACACACCAACTGCAGCTCACTTGGCCTCCTGCTAATTCAGAAAGGAAATGCA
 C R K H T N C S S L G L L L I Q K G N A
 670 690 710
 ACACATGACAATGTATGTTCCGGAACAGAGAAGCAACTCAAAATTGTGGAATAGATGTC
 T H D N V C S G N R E A T Q N C G I D V
 730 750 770
 ACCCTGTGCGAAGAGGCATTCTTCAGGTTTGCTGTGCCTACCAAGATTATACCGAATTGG
 T L C E E A F F R F A V P T K I I P N W
 790 810 830
 CTGAGTGTCTGGTGGACAGTTTGCCTGGGACCAAGTGAATGCAGAGAGTGTAGAGAGG
 L S V L V D S L P G T K V N A E S V E R
 850 870 890
 ATAAAACGGAGACACAGCTCGCAAGAGCAAACCTTCCAGCTACTTAAGCTGTGGAAGCAT
 I K R R H S S Q E Q T F Q L L K L W K H
 910 930 950
 CAAAACAGAGACCAGGAAATGGTGAAGAAGATCATCCAAGACATTGACCTCTGTGAAAGC
 Q N R D Q E M V K K I I Q D I D L C E S
 970 990 1010
 AGTGTGCAACGGCATATCGGCCACGCGAACCTCACCACAGAGCAGCTCCGCATCTTGATG
 S V Q R H I G H A N L T T E Q L R I L M

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FIG.2C

1030 1050 1070
 GAGAGCTTGCCTGGGAAGAAGATCAGCCCAGACGAGATTGAGAGAACGAGAAAGACCTGC
 E S L P G K K I S P D E I E R T R K T C
 1090 1110 1130
 AAACCCAGCGAGCAGCTCCTGAAGCTACTGAGCTTGTGGAGGATCAAAAATGGAGACCAA
 K P S E Q L L K L L S L W R I K N G D Q
 1150 1170 1190
 GACACCTTGAAGGGCCTGATGTACGCACTCAAGCACTTGAAAGCATACCACTTTCCCAA
 D T L K G L M Y A L K H L K A Y H F P K
 1210 1230 1250
 ACCGTCACCCACAGTCTGAGGAAGACCATCAGGTTCTTGCACAGCTTCACCATGTACCGA
 T V T H S L R K T I R F L H S F T M Y R
 1270 1290 1310
 TTGTATCAGAACTCTTTCTAGAAATGATAGGAATCAGGTTCAATCAGTGAAGATAAGC
 L Y Q K L F L E M I G N Q V Q S V K I S
 1330 1350 1370
 TGCTTATAGTTAGGAATGGTCACTGGGCTGTTTCTTCAGGATGGGCCAACACTGATGGAG
 C L
 1390 1410 1430
 CAGATGGCTGCTTCTCCGGCTCTTGAAATGGCAGTTGATTCCTTTCTCATCAGTTGGTGG
 1450 1470 1490
 GAATGAAGATCCTCCAGCCCAACACACACACTGGGGAGTCTGAGTCAGGAGAGTGAGGCA
 1510 1530 1550
 GGCTATTTGATAATTGTGCAAAGCTGCCAGGTGTACACCTAGAAAGTCAAGCACCCCTGAG
 1570 1590 1610
 AAAGAGGATATTTTTATAACCTCAAACATAGGCCCTTTCCTTCCTCTCCTTATGGATGAG
 1630 1650 1670
 TACTCAGAAGGCTTCTACTATCTTCTGTGTATCCCTAGATGAAGGCCTCTTTTATTTAT
 1690 1710 1730
 TTTTTTATTCTTTTTTTTCGGAGCTGGGGACCGAACCCAGGGCCTTGCGCTTGGCAGGCAA
 1750 1770 1790
 GTGCTCTACCACTGAGCTAAATCTCCAACCCCTGAAGGCCTCTTTCTTCTGCCTCTGAT
 1810 1830 1850
 AGTCTATGACATTCTTTTTTCTACAATTCGTATCAGGTGCACGAGCCTTATCCCATTGT
 1870 1890 1910
 AGGTTTCTAGGCAAGTTGACCGTTAGCTATTTTTCCCTCTGAAGATTGATTGAGTTGC
 1930 1950 1970
 AGACTTGGCTAGACAAGCAGGGGTAGGTTATGGTAGTTTATTTAACAGACTGCCACCAGG
 1990 2010 2030
 AGTCCAGTGTTTCTTGTTCCCTCTGTAGTTGTACCTAAGCTGACTCCAAGTACATTTAGTA
 2050 2070 2090
 TGAAAAATAATCAACAAATTTTATTCCTTCTATCAACATTGGCTAGCTTTGTTTCAGGGC
 2110 2130 2150
 ACTAAAAGAACTACTATATGGAGAAAGAATTGATATTGCCCCCAACGTTCAACAACCCA
 2170 2190 2210
 ATAGTTTATCCAGCTGTCATGCCTGGTTCAGTGTCTACTGACTATGCGCCCTCTTATTAC
 2230 2250 2270
 TGCATGCAGTAATTCAACTGGAAATAGTAATAATAATAAGAAATAAAATCTAGACTCC
 2290 2310 2330
 ATTGGATCTCTCTGAATATGGGAATATCTAACTTAAGAAGCTTTGAGATTTAGTTGTGT
 2350 2370 2390
 TAAAGGCTTTTATTAAAAAGCTGATGCTCTCTGTAAAAGTTACTAATATATCTGTAAGA
 2410 2430
 CTATTACAGTATTGCTATTTATATCCATCCAG

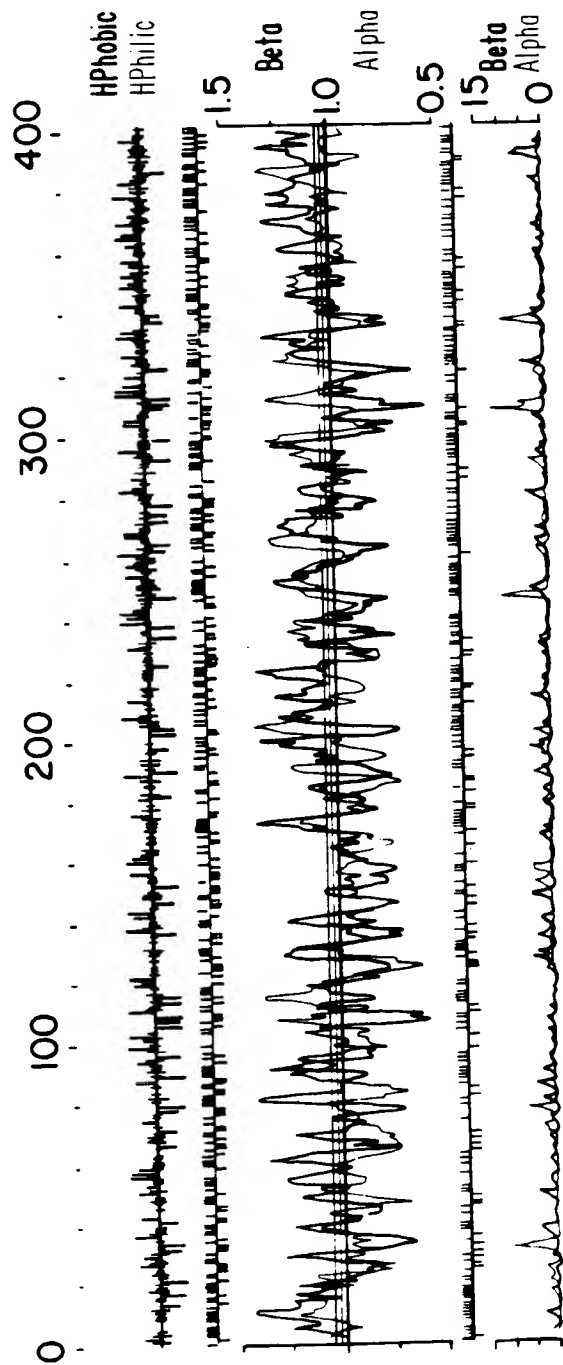
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FIG. 2D

[illegible][illegible][illegible]

FIG. 2E

[illegible][illegible][illegible]



Basic
Acidic
B Form
B Break

Chou &
Fasman

α Form
 α Break
NH2 End

FIG. 3A

FIG. 3B

FIG. 3C

FIG. 3D

FIG. 3E

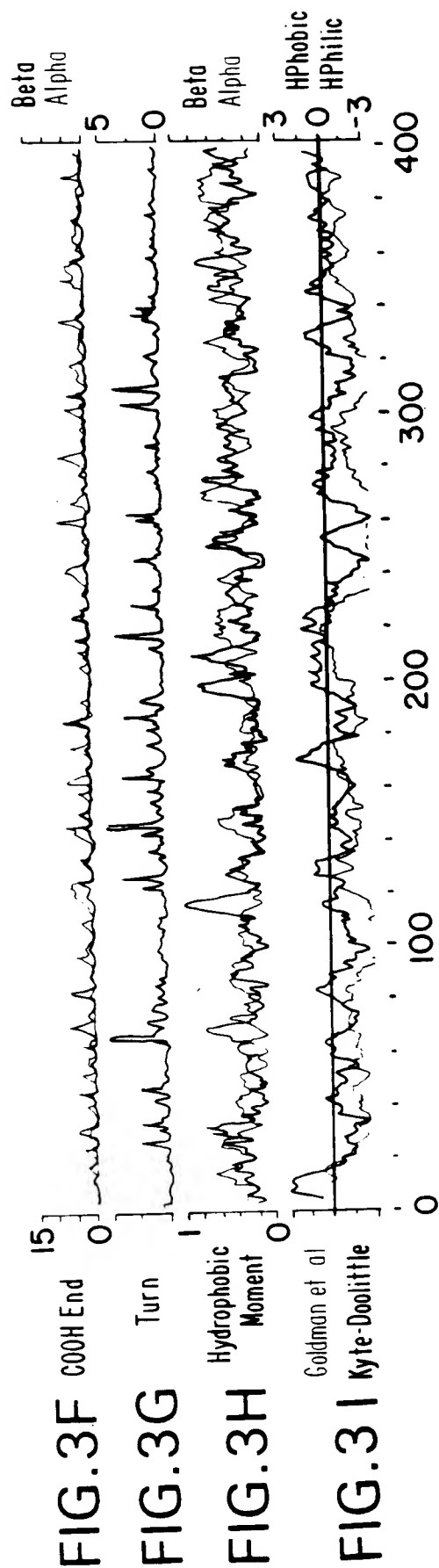


FIG.4A

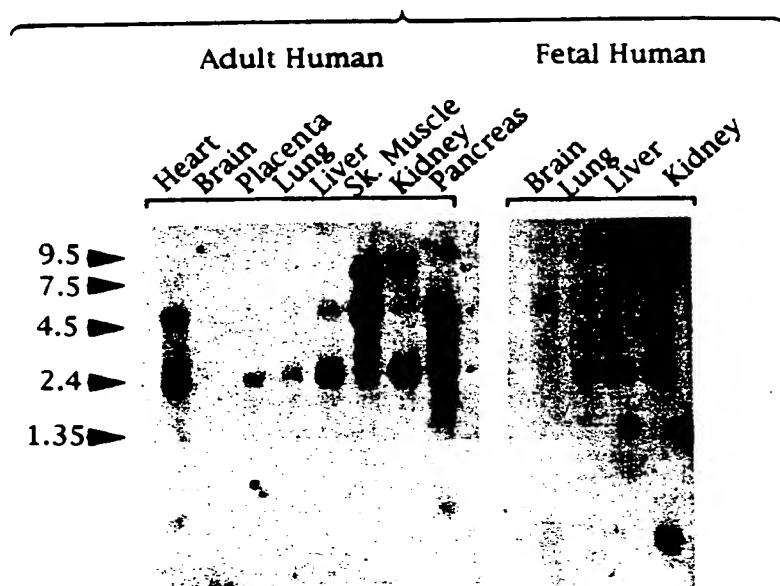


FIG.4B

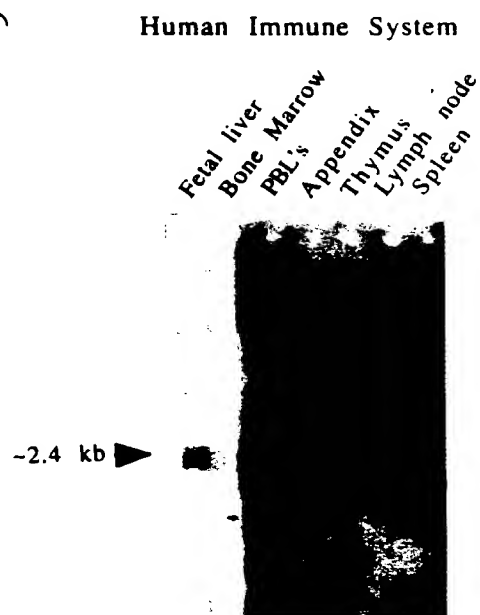
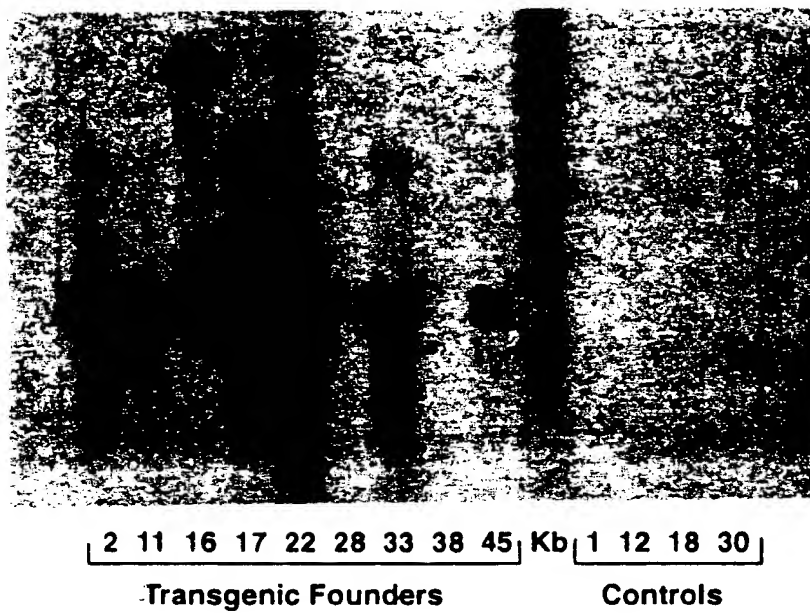


FIG.5



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FIG.6A

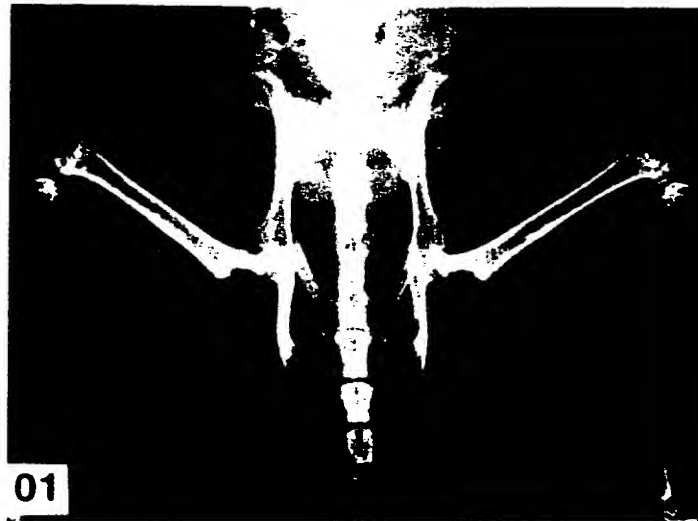


FIG.6B

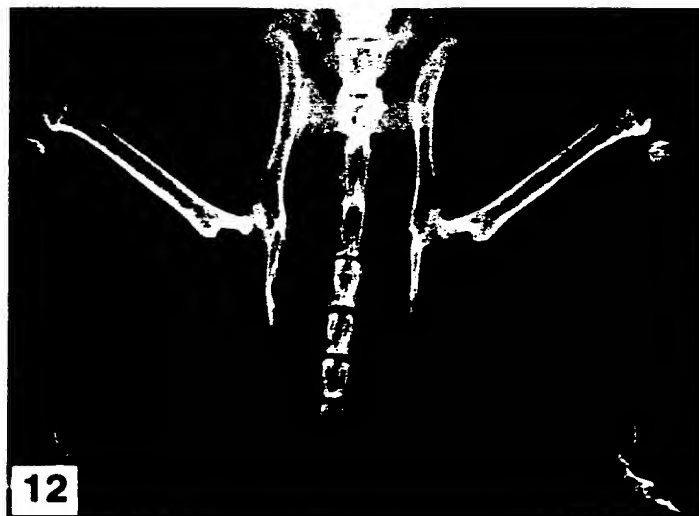


FIG.6C



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FIG.6D

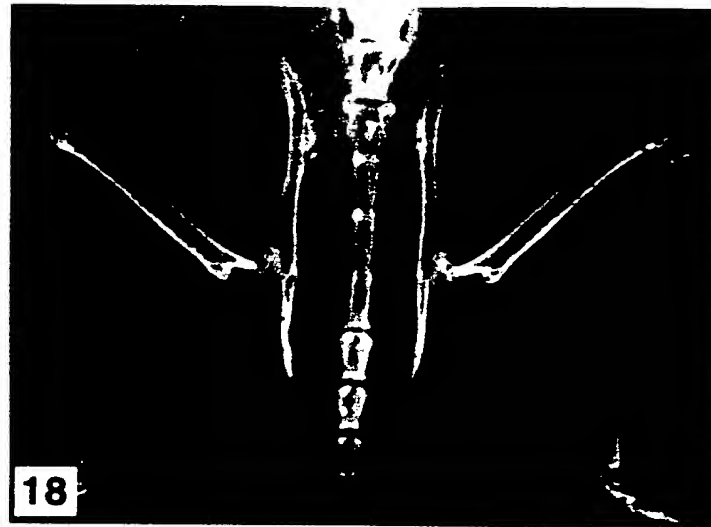


FIG.6E



FIG.6F

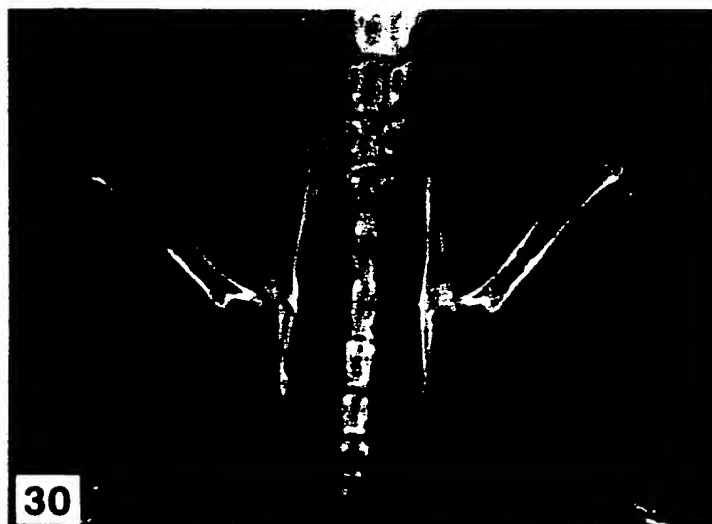


FIG.6G



FIG.6H

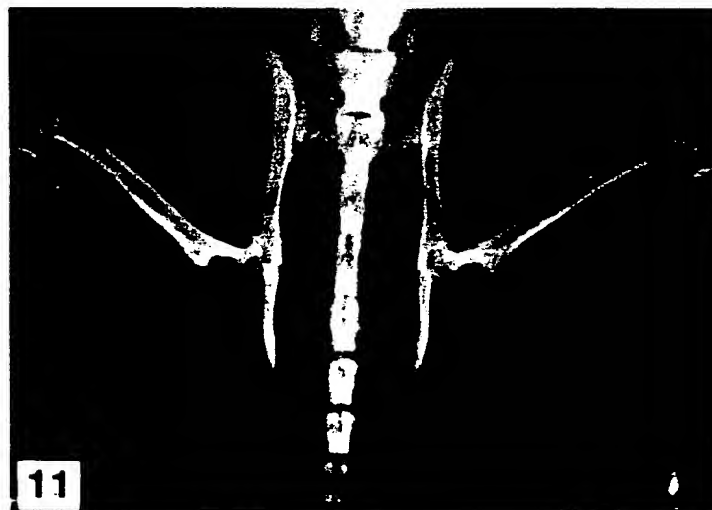


FIG.6I

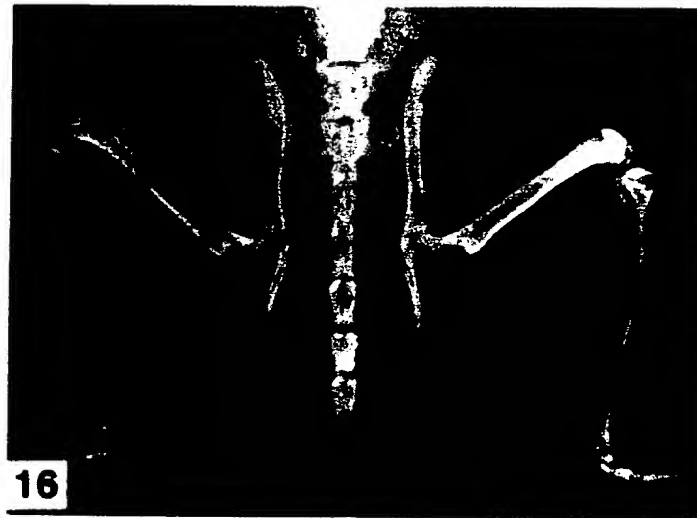
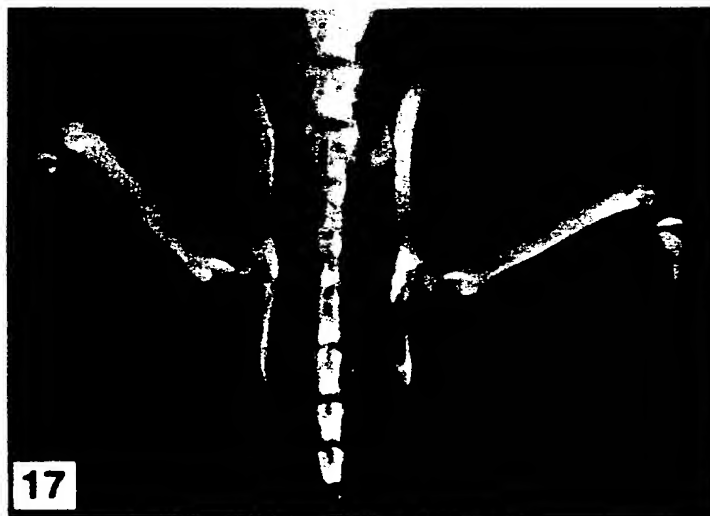


FIG.6J



0022T" 5248T450

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FIG.7A

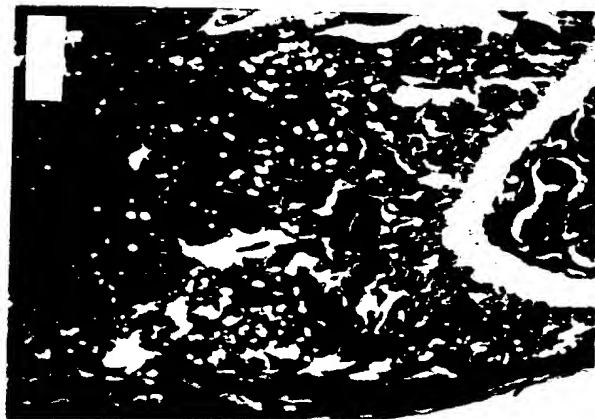


FIG.7B



FIG.7C



FIG.7D

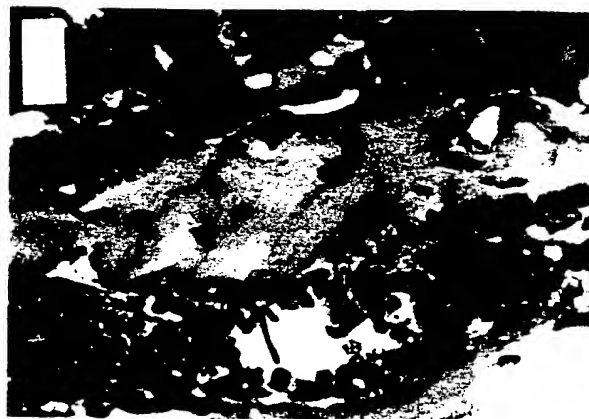


FIG.7E

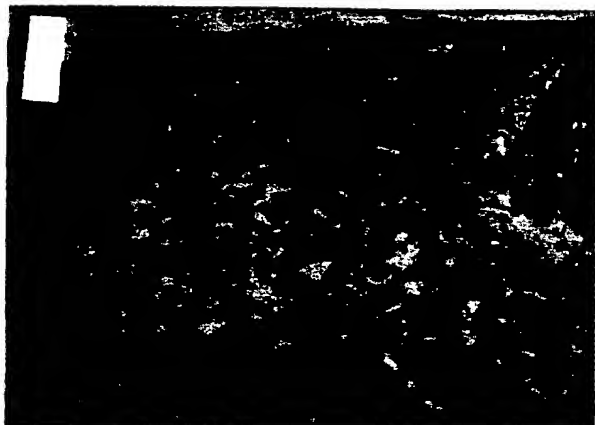


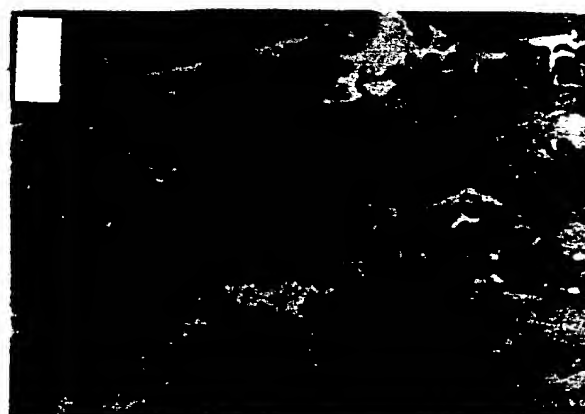
FIG.7F



FIG.7G



FIG.7H



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FIG.8A



FIG.8B

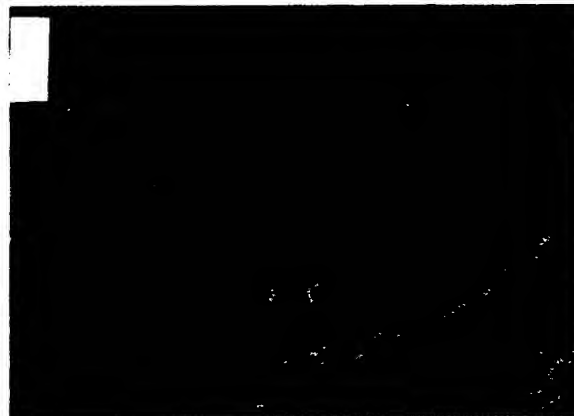


FIG.8C



FIG.8D



09718725.41200

FIG.9A

10 30 50
 CCTTATATAARACGTCATGATTGCCTGGGCTGCAGAGACGCACCTAGCACTGACCCAGCG
 70 90 110
 GCTGCCTCCTGAGGTTTCCCGAGGACCACAATGAACAAGTGGCTGTGCTGCGCACTCCTG
 M N K W L C C A L L
 130 150 170
 GTGCTCCTGGACATCATTTGAATGGACAACCCAGGAAACCCTTCCTCCAAAGTACTTGCAT
 V L L D I I E W T T O E T L P P K Y L H
 190 210 230
 TATGACCCAGAACTGGTCATCAGCTCCTGTGTGACAAATGTGCTCCTGGCACCTACCTA
 Y D P E T G H Q L L C D K C A P G T Y L
 250 270 290
 AAACAGCACTGCACAGTGAGGAGGAAGACATTGTGTGTCCCTTGCCCTGACCACTCTTAT
 K Q H C T V R R K T L C V P C P D H S Y
 310 330 350
 ACGGACAGCTGGCACACACAGTGATGAGTGTGTGTATTGCAGCCCAGTGTGCAAGGAACTG
 T D S W H T S D E C V Y C S P V C K E L
 370 390 410
 CAGTCCGTGAAGCAGGAGTGCAACCGCACCCACAACCGAGTGTGTGAGTGTGAGGAAGGG
 Q S V K Q E C N R T H N R V C E C E E G
 430 450 470
 CGTTACCTGGAGATCGAATTCTGCTTGAAGCACCGGAGCTGTCCCCCGGGCTCCGGCGTG
 R Y L E I E F C L K H R S C P P G S G V
 490 510 530
 GTGCAAGCTGGAACCCAGAGCGAAACACAGTTTGCAAAAAATGTCCAGATGGGTTCTTC
 V Q A G T P E R N T V C K K C P D G F F
 550 570 590
 TCAGGTGAGACTTCATCGAAAGCACCCCTGTATAAAACACACGAACTGCAGCACATTTGGC
 S G E T S S K A P C I K H T N C S T F G
 610 630 650
 CTCCTGCTAATTCAGAAAGGAAATGCAACACATGACAACGTGTGTTCCGGAAACAGAGAA
 L L L I Q K G N A T H D N V C S G N R E
 670 690 710
 GCCACGCAAAAGTGTGGAATAGATGTCACCCTGTGTGAAGAGGCCTTCTTCAGGTTTGCT
 A T Q K C G I D V T L C E E A F F R F A
 730 750 770
 GTTCCTACCAAGATTATACCAAATTGGCTGAGTGTTTTGGTGGACAGTTTGCCTGGGACC
 V P T K I I P N W L S V L V D S L P G T

09718725-11200

FIG.9B

790 810 830
 AAAGTGAATGCCGAGAGTGTAGAGAGGATAAAACGGAGACACAGCTCACAAAGAGCAAACC
 K V N A E S V E R I K R R H S S Q E Q T
 850 870 890
 TTCCAGCTGCTGAAGCTGTGGAAACATCAAAACAGAGACCAGGAAATGGTGAAGAAGATC
 F Q L L K L W K H Q N R D Q E M V K K I
 910 930 950
 ATCCAAGACATTGACCTCTGTGAAAGCAGCGTGCAGCGGCATCTCGGCCACTCGAACCTC
 I Q D I D L C E S S V Q R H L G H S N L
 970 990 1010
 ACCACAGAGCAGCTTCTTGCCTTGATGGAGAGCCTGCCTGGGAAGAAGATCAGCCCAGAA
 T T E Q L L A L M E S L P G K K I S P E
 1030 1050 1070
 GAGATTGAGAGAACGAGAAAGACCTGCAAATCGAGCGAGCAGCTCCTGAAGCTACTCAGT
 E I E R T R K T C K S S E Q L L K L L S
 1090 1110 1130
 TTATGGAGGATCAAAAATGGTGACCAAGACACCTTGAAGGGCCTGATGTATGCCCTCAAG
 L W R I K N G D Q D T L K G L M Y A L K
 1150 1170 1190
 CACTTGAAAACATCCCACCTTTCCCAAAACTGTCACCCACAGTCTGAGGAAGACCATGAGG
 H L K T S H F P K T V T H S L R K T M R
 1210 1230 1250
 TTCCTGCACAGCTTCACAATGTACAGACTGTATCAGAAGCTCTTTTTAGAAATGATAGGG
 F L H S F T M Y R L Y Q K L F L E M I G
 1270 1290 1310
 AATCAGGTTCAATCCGTGAAAATAAGCTGCTTATAACTAGGAATGGTCACTGGGCTGTTT
 N Q V Q S V K I S C L

CTTCA

FIG.9C

10 30 50
 GTATATATAACGTGATGAGCGTACGGGTGCGGAGACGCACCGGAGCGCTCGCCCAGCCGC
 70 90 110
 CGYCTCCAAGCCCCCTGAGGTTTCCGGGGACCACAATGAACAAGTTGCTGTGCTGCGCGCT
 M N K L L C C A L
 130 150 170
 CGTGTTTCTGGACATCTCCATTAAGTGGACCACCCAGGAAACGTTTCCTCCAAAGTACCT
 V F L D I S I K W T T O E T F P P K Y L
 190 210 230
 TCATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAATGTCCTCCTGGTACCTA
 H Y D E E T S H Q L L C D K C P P G T Y
 250 270 290
 CCTAAAACAACACTGTACAGCAAAGTGAAGACCGTGTGCGCCCCCTTGCCCTGACCACTA
 L K Q H C T A K W K T V C A P C P D H Y
 310 330 350
 CTACACAGACAGCTGGCACACCAGTGACGAGTGTCTATACTGCAGCCCCGTGTGCAAGGA
 Y T D S W H T S D E C L Y C S P V C K E
 370 390 410
 GCTGCAGTACGTCAAGCAGGAGTGCAATCGCACCCACAACCGCGTGTGCGAATGCAAGGA
 L Q Y V K Q E C N R T H N R V C E C K E
 430 450 470
 AGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGGATTGG
 G R Y L E I E F C L K H R S C P P G F G
 490 510 530
 AGTGGTGCAAGCTGGAACCCCAGAGCGAAATACAGTTTGCAAAAGATGTCCAGATGGGTT
 V V Q A G T P E R N T V C K R C P D G F
 550 570 590
 CTTCTCAAATGAGACGTCATCTAAAGCACCCCTGTAGAAAACACACAAATTGCAGTGTCTT
 F S N E T S S K A P C R K H T N C S V F
 610 630 650
 TGGTCTCCTGCTAACTCAGAAAGGAAATGCAACACACGACAACATATGTTCCGGAAACAG
 G L L L T Q K G N A T H D N I C S G N S
 670 690 710
 TGAATCAACTCAAAAATGTGGAATAGATGTTACCCTGTGTGAGGAGGCATTCTTCAGGTT
 E S T Q K C G I D V T L C E E A F F R F
 730 750 770
 TGCTGTTCTACAAAGTTTACGCCTAACTGGCTTAGTGTCTTGGTAGACAATTTGCCTGG
 A V P T K F T P N W L S V L V D N L P G

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FIG.9D

790 810 830
 CACCAAAGTAAACGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTCACAAGAACA
 T K V N A E S V E R I K R Q H S S Q E Q
 850 870 890
 GACTTTCAGCTGCTGAAGTTATGGAAACATCAAACAAAGACCAAGATATAGTCAAGAA
 T F Q L L K L W K H Q N K D Q D I V K K
 910 930 950
 GATCATCCAAGATATTGACCTCTGTGAAAACAGCGTGCAGCGGCACATTGGACATGCTAA
 I I Q D I D L C E N S V Q R H I G H A N
 970 990 1010
 CCTCACCTTCGAGCAGCTTCGTAGCTTGATGGAAAGCTTACCGGGAAAGAAAGTGGGAGC
 L T F E Q L R S L M E S L P G K K V G A
 1030 1050 1070
 AGAAGACATTGAAAAACAATAAAGGCATGCAAACCCAGTGACCAGATCCTGAAGCTGCT
 E D I E K T I K A C K P S D Q I L K L L
 1090 1110 1130
 CAGTTTGTGGCGAATAAAAAATGGCGACCAAGACACCTTGAAGGGCCTAATGCACGCACT
 S L W R I K N G D Q D T L K G L M H A L
 1150 1170 1190
 AAAGCACTCAAAGACGTACCACTTTCCCAAAACTGTCACTCAGAGTCTAAAGAAGACCAT
 K H S K T Y H F P K T V T Q S L K K T I
 1210 1230 1250
 CAGGTTTCCTTCACAGCTTCACAATGTACAAATTGTATCAGAAGTTATTTTGTAGAAATGAT
 R F L H S F T M Y K L Y Q K L F L E M I
 1270 1290 1310
 AGGTAACCAGGTCCAATCAGTAAAAATAAGCTGCTTATAACTGGAAATGGCCATTGAGCT
 G N Q V Q S V K I S C L
 1330 1350
 GTTTCCTCACAATTGGCGAGATCCCATGGATGATAA

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FIG.9E

muosteo.frg	MNKKWLC	CCALLV	LLD	I	I	E	W	T	T	Q	E	T	L	P	P	K	Y	L	H	Y	D	P	E	T	G	H	Q	L	L	C	D	K	C	A	P	G	T	Y	L	50										
ratosteo.frg	MNKKWLC	CCALLV	FLD	I	I	E	W	T	T	Q	E	T	F	P	P	K	Y	L	H	Y	D	P	E	T	G	R	Q	L	L	C	D	K	C	A	P	G	T	Y	L	50										
huosteo.frg	MNKKLL	CCALLV	FLDIS	I	K	R	W	T	T	Q	E	T	F	P	P	K	Y	L	H	Y	D	E	E	T	S	H	Q	L	L	C	D	K	C	P	P	G	T	Y	L	50										
muosteo.frg	KQHCT	VRRR	KTL	C	V	P	C	P	D	H	S	Y	T	D	S	W	H	T	S	D	E	C	V	Y	C	S	P	V	C	K	E	L	Q	S	V	K	Q	E	C	N	R	T	100							
ratosteo.frg	KQHCT	VRRR	KTL	C	V	P	C	P	D	Y	S	Y	T	D	S	W	H	T	S	D	E	C	V	Y	C	S	P	V	C	K	E	L	Q	T	V	K	Q	E	C	N	R	T	100							
huosteo.frg	KQHCT	A	K	W	K	T	V	C	A	P	C	P	D	H	Y	Y	T	D	S	W	H	T	S	D	E	C	L	Y	C	S	P	V	C	K	E	L	Q	Y	V	K	Q	E	C	N	R	T	100			
muosteo.frg	HNRV	C	E	C	E	E	G	R	Y	L	E	I	E	F	C	L	K	H	R	S	C	P	P	G	S	G	V	V	Q	A	G	T	P	E	R	N	T	V	C	K	C	P	D	G	F	F	150			
ratosteo.frg	HNRV	C	E	C	E	E	G	R	Y	L	E	L	E	F	C	L	K	H	R	S	C	P	P	G	L	G	V	L	Q	A	G	T	P	E	R	N	T	V	C	K	R	C	P	D	G	F	F	150		
huosteo.frg	HNRV	C	E	C	K	E	G	R	Y	L	E	I	E	F	C	L	K	H	R	S	C	P	P	G	F	G	V	Q	A	G	T	P	E	R	N	T	V	C	K	R	C	P	D	G	F	F	150			
muosteo.frg	S	G	E	T	S	S	K	A	P	C	I	K	H	T	N	C	S	T	F	G	L	L	I	Q	K	G	N	A	T	H	D	N	V	C	S	G	N	R	E	A	T	Q	K	C	G	I	D	V	T	200
ratosteo.frg	S	G	E	T	S	S	K	A	P	C	R	K	H	T	N	C	S	S	L	G	L	L	I	Q	K	G	N	A	T	H	D	N	V	C	S	G	N	R	E	A	T	Q	N	C	G	I	D	V	T	200
huosteo.frg	S	N	E	T	S	S	K	A	P	C	R	K	H	T	N	C	S	V	F	G	L	L	I	Q	K	G	N	A	T	H	D	N	I	C	S	G	N	S	E	S	T	Q	K	C	G	I	D	V	T	200

FIG.9F

muosteo.frg	L C E E A F F R F A V P T K I I P N W L S V L V D S L P G T K K V N A E S V E R I K R R R H S S Q E Q T	250
ratosteo.frg	L C E E A F F R F A V P T K I I P N W L S V L V D S L P G T K K V N A E S V E R I K R R R H S S Q E Q T	250
huosteo.frg	L C E E A F F R F A V P T K I I P N W L S V L V D S L P G T K K V N A E S V E R I K R R R H S S Q E Q T	250

muosteo.frg	F Q L L K L W K H Q N R D Q E M V K K I I Q D I D L C E S S V Q R H L G H S N L T T E Q L L A L M E	300
ratosteo.frg	F Q L L K L W K H Q N R D Q E M V K K I I Q D I D L C E S S V Q R H I G H A N L T T E Q L R I L M E	300
huosteo.frg	F Q L L K L W K H Q N R D Q E M V K K I I Q D I D L C E S S V Q R H I G H A N L T F E Q L R S L M E	300

muosteo.frg	S L P G K K I S P E E I E R T R K K T C K S S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K	350
ratosteo.frg	S L P G K K I S P D E I E R T R K K T C K P S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K	350
huosteo.frg	S L P G K K V G A E D I E R T I K A C K P S D Q I L K L L S L W R I K N G D Q D T L K G L M H A L K	350

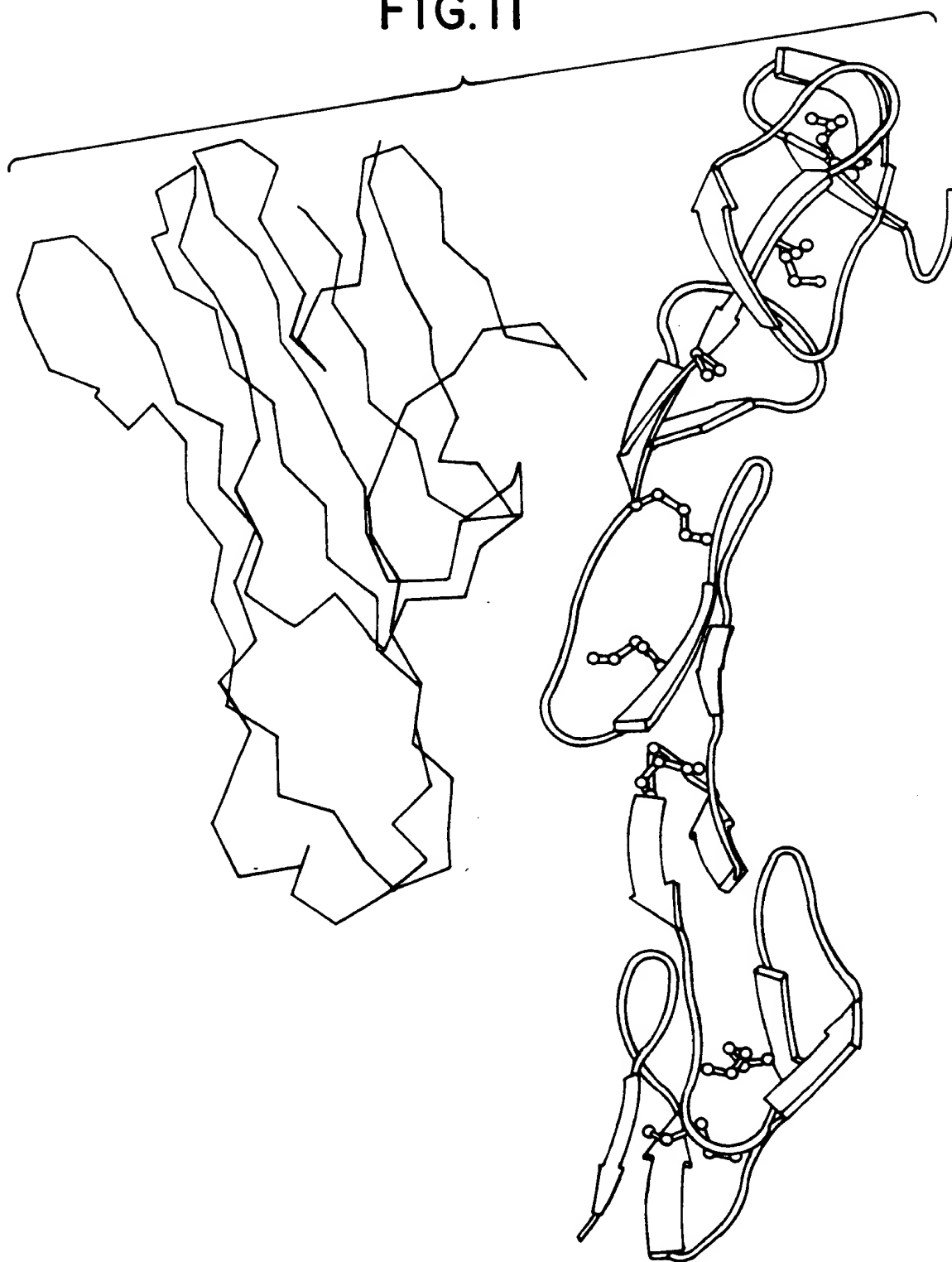
muosteo.frg	H L K T S H F P K T V T H S L R K T M R F L H S F T M Y R L Y Q K L F L E M I G N Q V Q S V K I S C	400
ratosteo.frg	H L K A Y H F P K T V T H S L R K T I R F L H S F T M Y R L Y Q K L F L E M I G N Q V Q S V K I S C	400
huosteo.frg	H S K T Y H F P K T V T Q S L K K T I R F L H S F T M Y R L Y Q K L F L E M I G N Q V Q S V K I S C	400

muosteo.frg	L	401
ratosteo.frg	L	401
huosteo.frg	L	401

FIG.10

ltnrr	C	P	Q	-	G	K	Y	I	H	P	Q	N	N	S	I	C	T	K	C	H	K	G	T	Y	L	Y	N	D	C	P	G	P	G	Q	D	T	D	C	R	E	C	E	S	G	S	F	T	A	S	49	
humoste	P	P	K	Y	L	H	Y	D	E	E	T	S	H	Q	L	L	C	D	K	C	P	P	G	T	Y	L	K	Q	H	C	T	A	K	-	W	K	T	V	C	A	P	C	P	D	H	Y	T	D	S	49	
ltnrr	E	N	H	L	R	H	C	L	S	C	S	-	K	C	R	K	E	M	G	Q	V	E	I	S	S	C	T	V	D	R	D	T	V	C	G	C	R	K	N	Q	Y	R	H	Y	W	S	E	N	L	F	98
humoste	W	H	T	S	D	E	C	L	Y	C	S	P	V	C	-	K	E	L	Q	Y	V	K	-	Q	E	C	N	R	T	H	N	R	V	C	E	C	K	E	G	R	Y	L	E	I	-	-	-	E	-	F	93
ltnrr	Q	C	F	N	C	S	L	C	L	N	G	-	T	V	H	L	S	C	Q	E	K	Q	N	T	V	C	T	-	C	H	A	G	F	F	L	R	E	-	-	-	N	E	C	V	S	C	139				
humoste	-	C	L	K	H	R	S	C	P	P	G	F	G	V	V	Q	A	G	T	P	E	R	N	T	V	C	K	R	C	P	D	G	F	F	S	N	E	T	S	S	K	A	P	C	R	K	H	139			

FIG. II



09748725-142200

FIG.12A

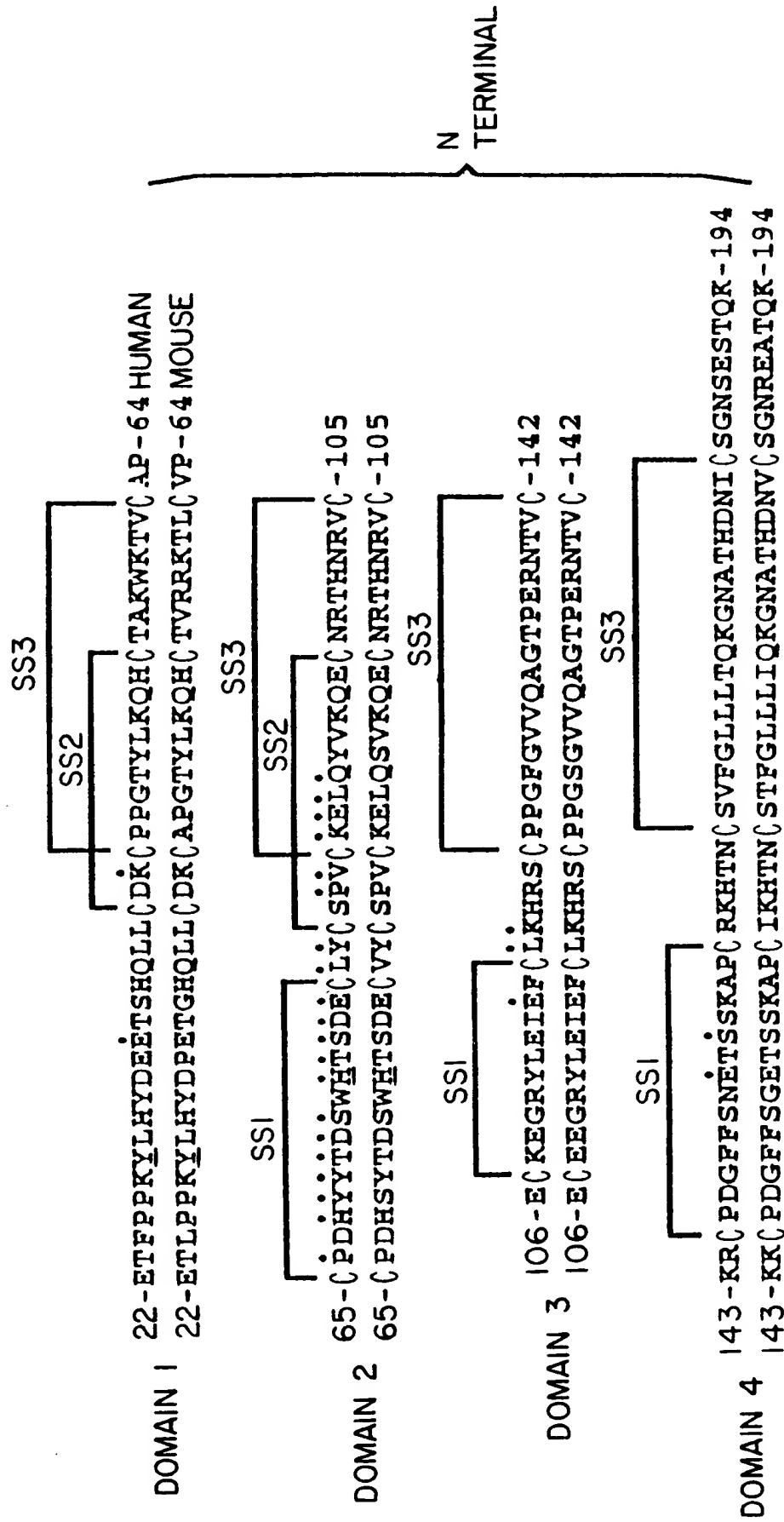


FIG.12B

195 -CGIDVTLC^CEEAF^CFRFAVPTKFTPNWLSVLVDNLP^CGTKVNAESVERIK^CRQHSS-246
 195 -CGIDVTLC^CEEAF^CFRFAVPTKIIIPNWLSVLVDNLP^CGTKVNAESVERIK^CRRHSS-246
 247 -QEQT^CFQLKLWK^CHQNKDQDIVK^CIIQDID^CIC^CENSVQRH^CIGHANLT^CFEQLRSL-298
 247 -QEQT^CFQLKLWK^CHQNRDQEMV^CK^CIIQDID^CIC^CENSVQRH^CLGH^CSNLT^CTEQLLAL-298
 299 -MESLP^CGKKVGAEDIEKTIK^CAK^CPSDQILKLLSLWRIKNGDQDTL^CKGLMHALK-350
 299 -MESLP^CGKKISPEEIERTRK^CTK^CSSSEQLLKLLSLWRIKNGDQDTL^CKGLMYALK-350
 351 -HSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKL^CFLEMIGNQVQSVKIS^CCL-401
 351 -HLKTSHPKTVTHSLRK^CTMRF^CLHSFTMYRLYQKL^CFLEMIGNQVQSVKIS^CCL-401

C
TERMINAL

FIG.13A

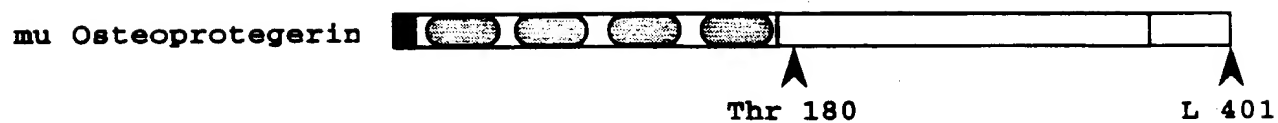


FIG.13B

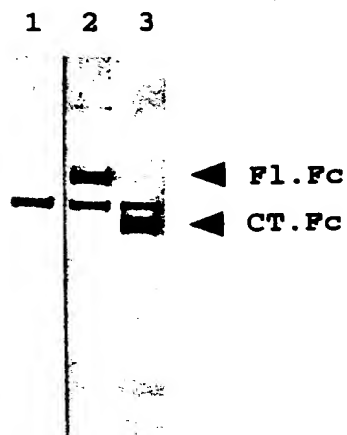
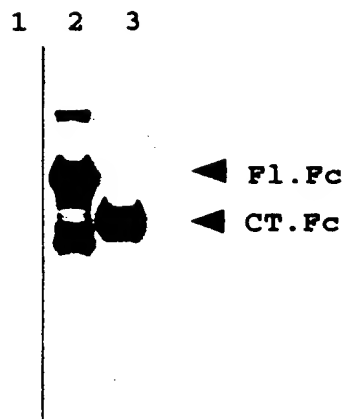
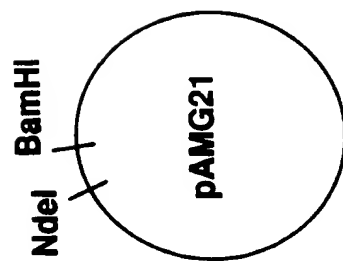


FIG.13C



002215 52/87/60

FIG.14A



Nde I cohesive end

Kpn I cohesive end

TATGGATGAAGAACTTCTCATCAGCTGCTGTGTGATAAATGTCCCGCGGTAC
ACCTACTTCTTTGAAGAGTAGTCGACGACACACTATTACAGGCGGCC

+

1257-20 hu Osteoprotegerin PCR Product BamHI

KpnI

#1257-19

A fragment

Oligo Linker & PCR Product

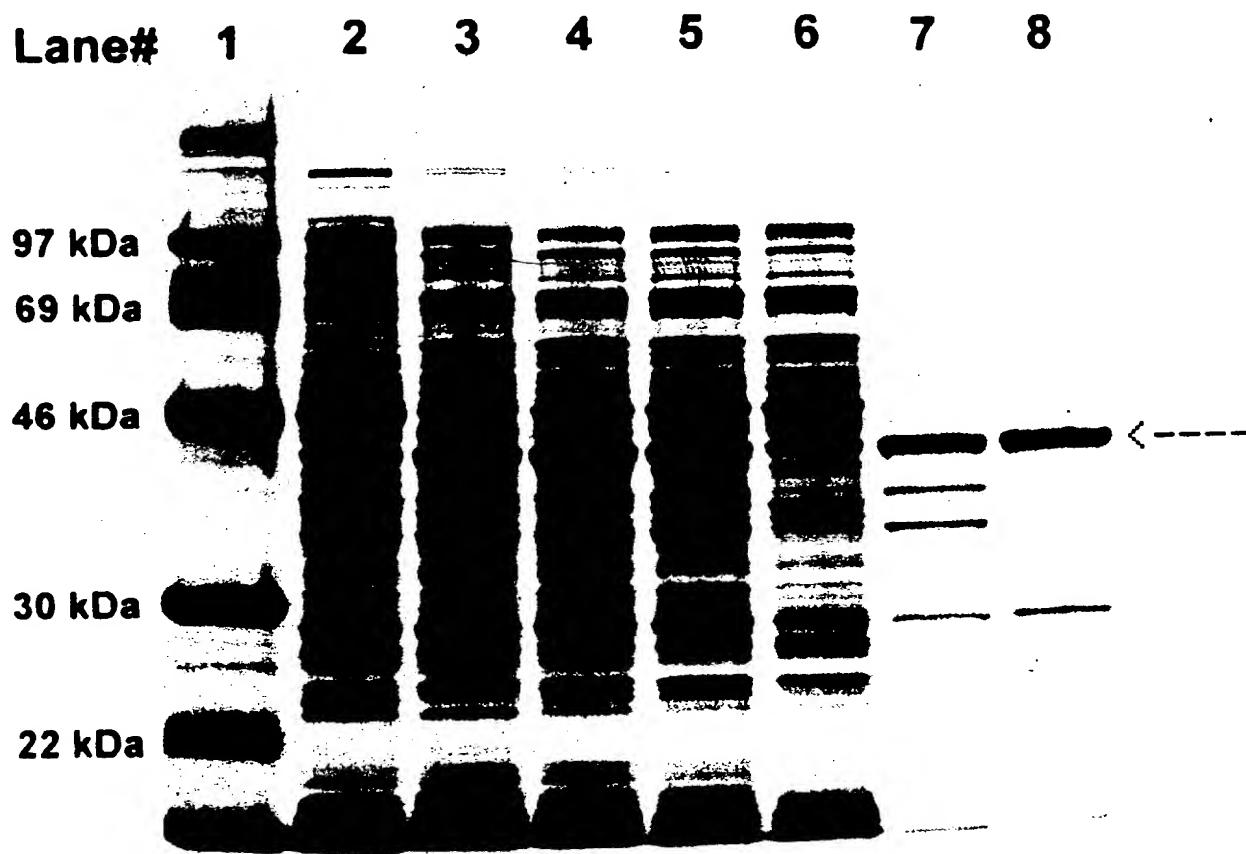
KpnI

NdeI

BamHI

pAMG21-human -
OSTEOPROTEGERIN -
32-401

FIG.14B



09718725 11200

FIG.15

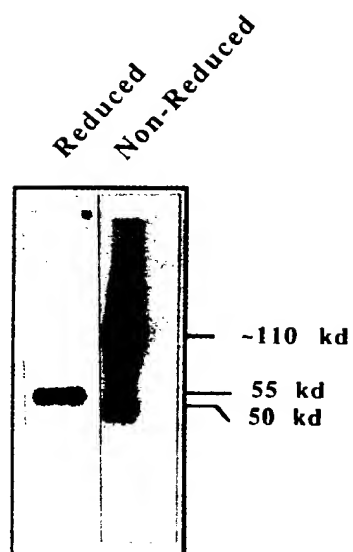


FIG.16A

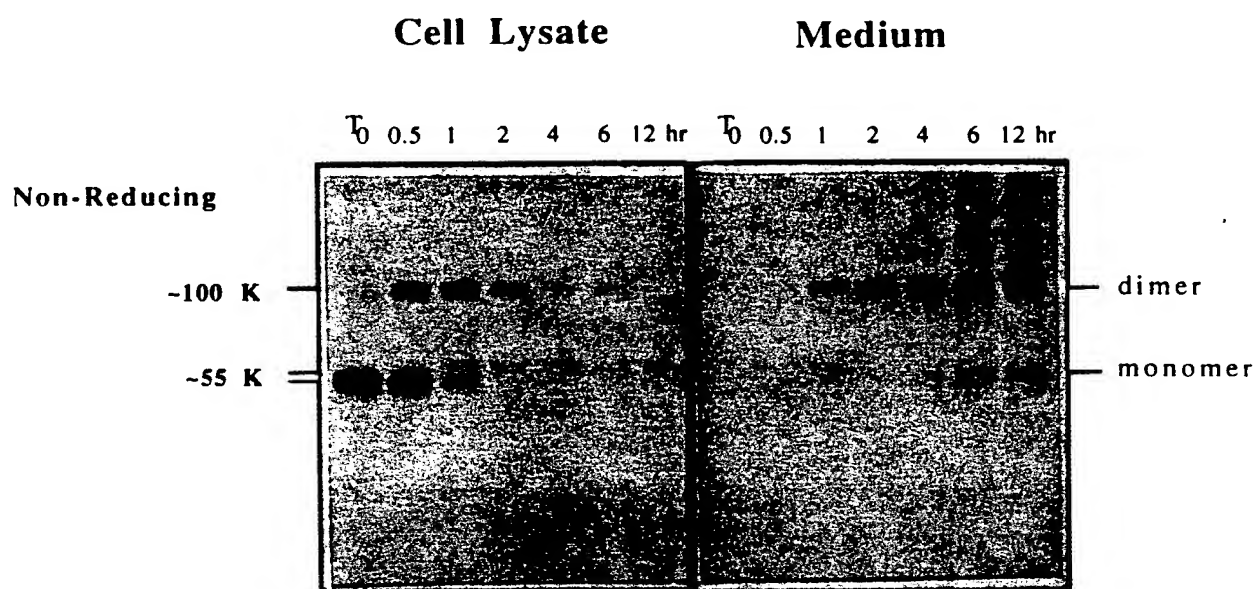
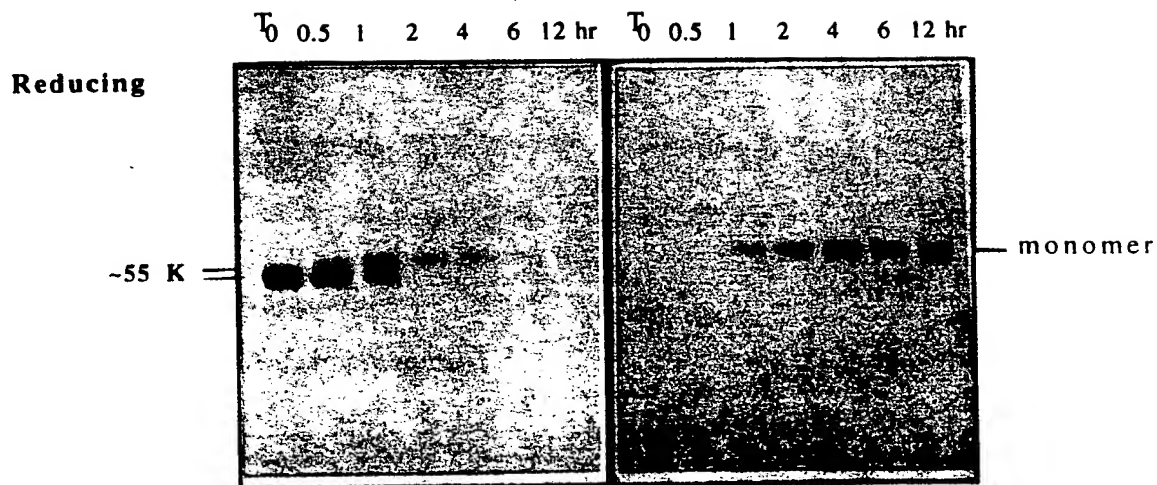
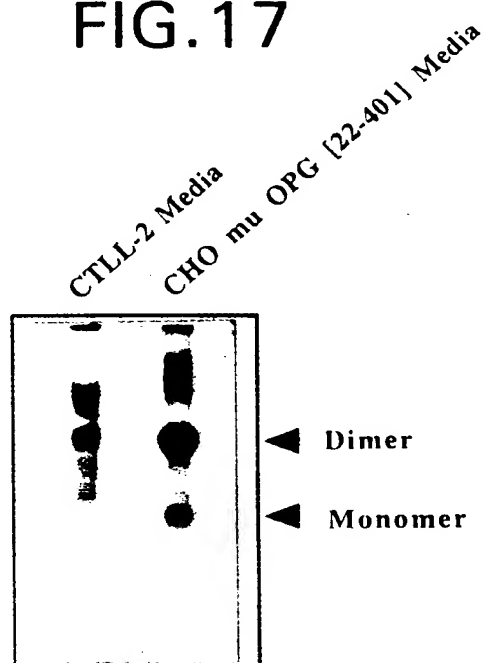


FIG.16B



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FIG.17



Parameter	Value	Unit
α	0.001	
β	0.001	
γ	0.001	
δ	0.001	
ϵ	0.001	
ζ	0.001	
η	0.001	
θ	0.001	
ι	0.001	
κ	0.001	
λ	0.001	
μ	0.001	
ν	0.001	
ξ	0.001	
\omicron	0.001	
π	0.001	
ρ	0.001	
σ	0.001	
τ	0.001	
υ	0.001	
ϕ	0.001	
χ	0.001	
ψ	0.001	
ω	0.001	
Ω	0.001	
Θ	0.001	
Φ	0.001	
Ψ	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	
Δ	0.001	
Σ	0.001	
Π	0.001	
Λ	0.001	
Ξ	0.001	
\Omicron	0.001	
Υ	0.001	
Γ	0.001	

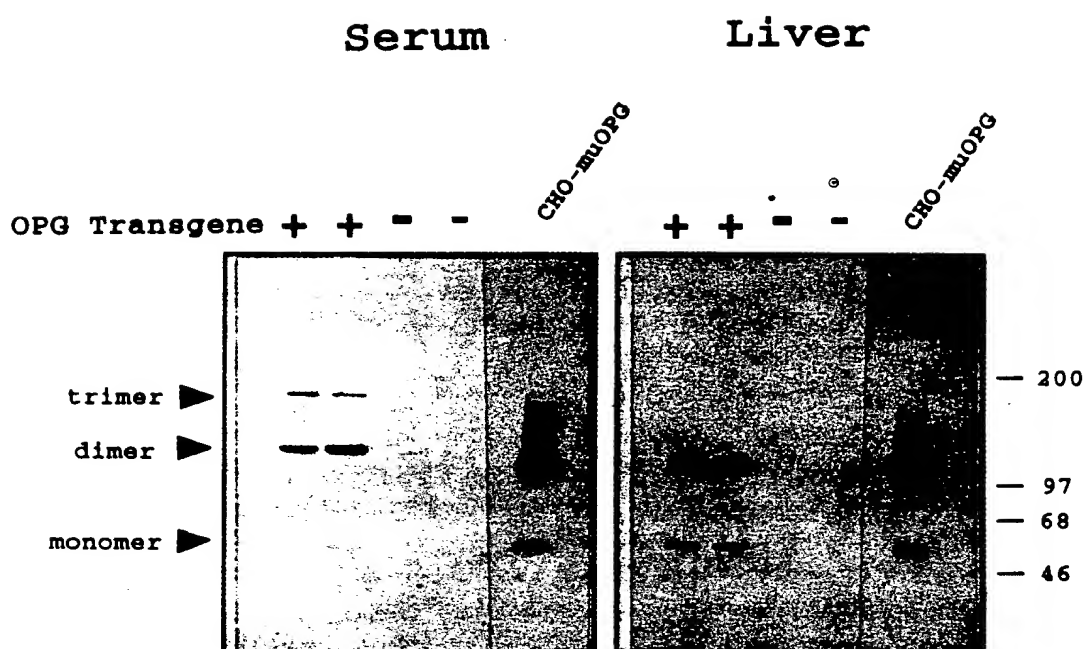


FIG.19A

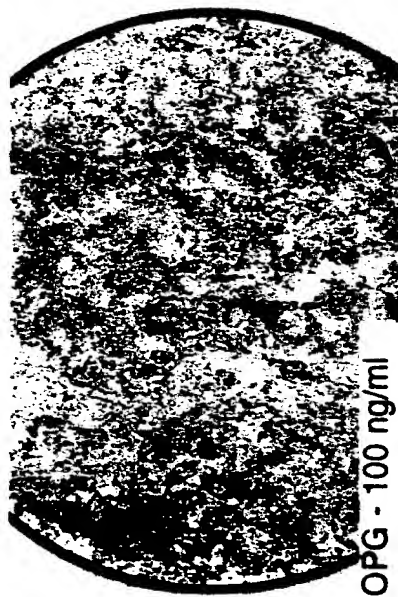


FIG.19B

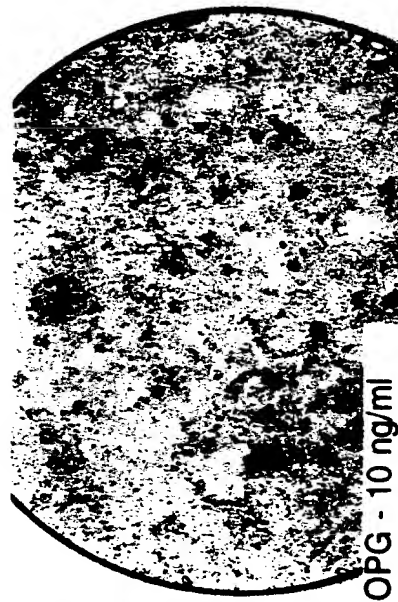


FIG.19C

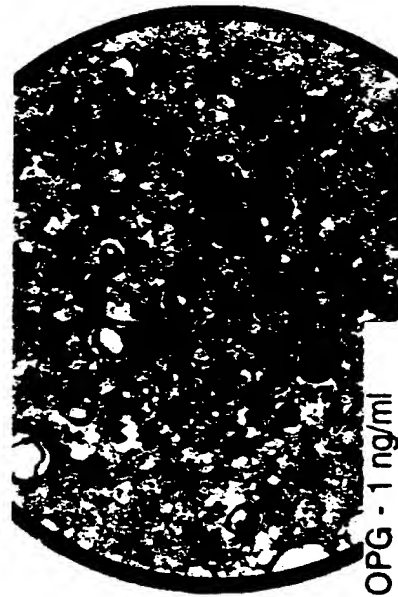


FIG.19D

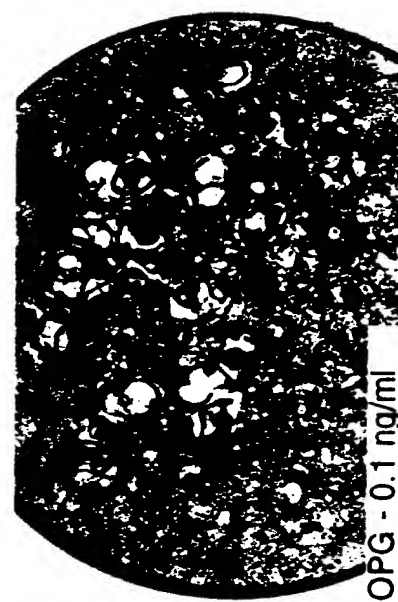


FIG.19E

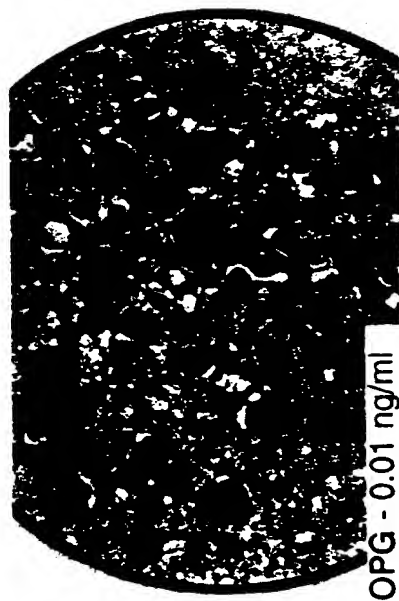


FIG.19F

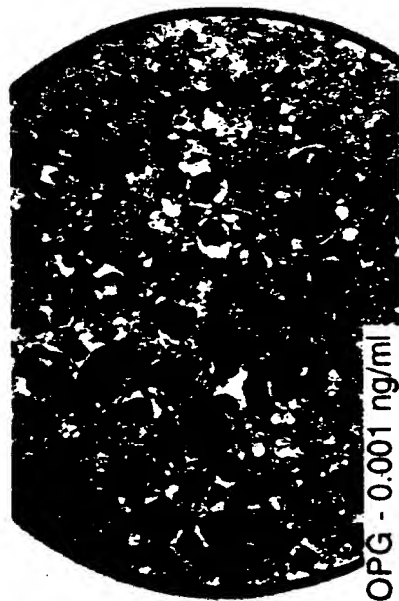


FIG.19G



FIG.20

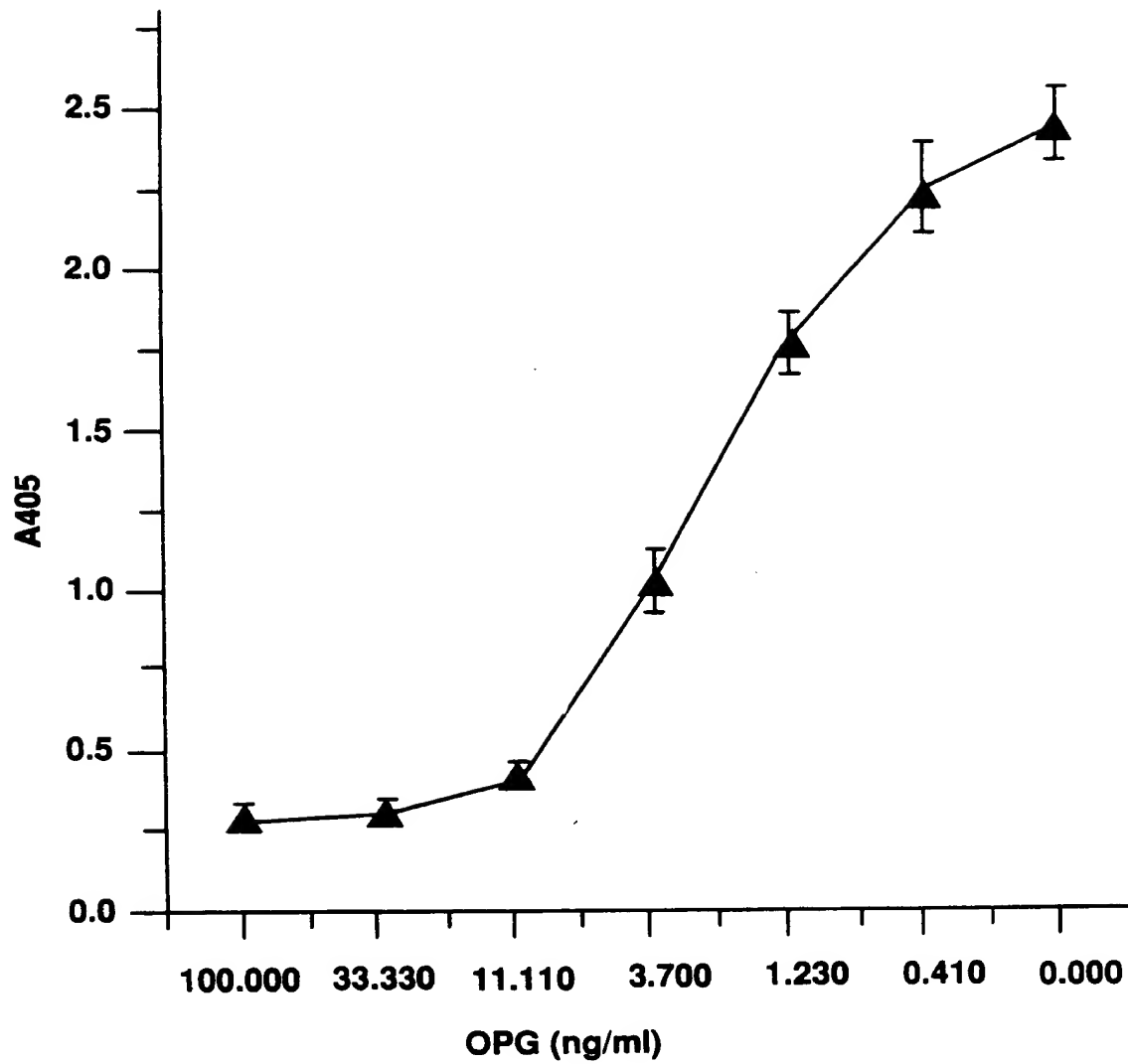
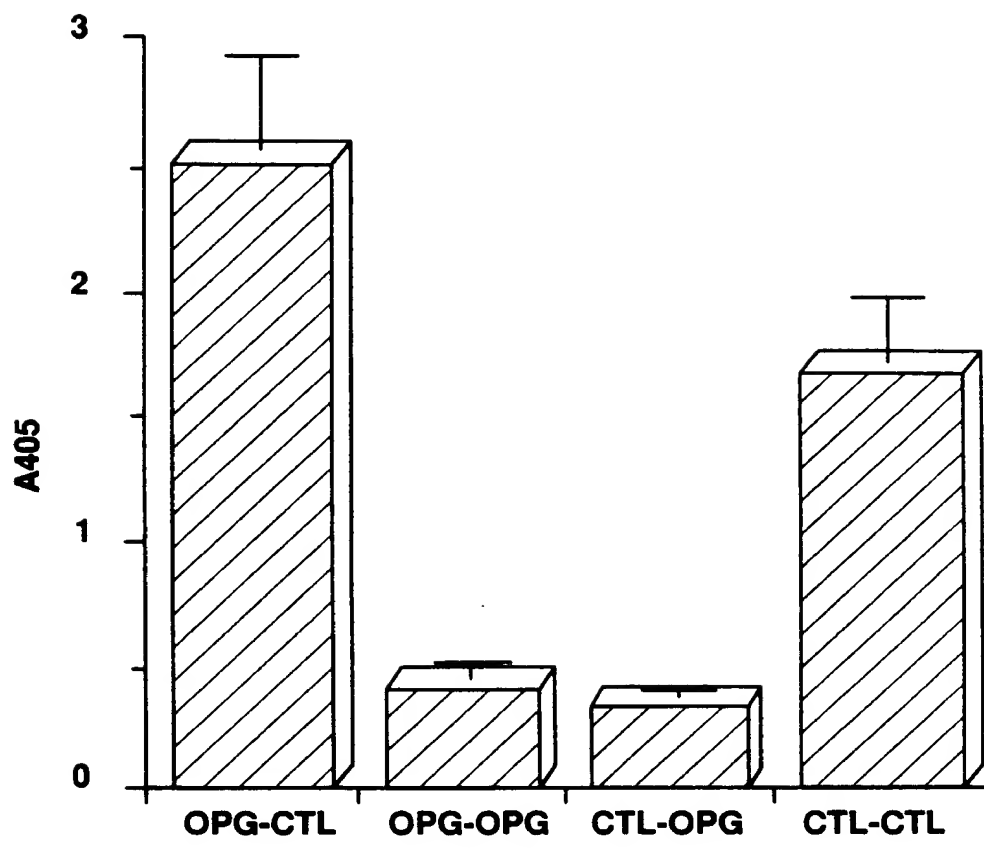


FIG.21



Legend

Growth
Bone marrow
cells
CSF -1

Intermediate
PGE2 + CSF-1

Terminal
ST2 cells
1,25 (OH)2 D3
Dexamethasone

4 days

2 days

8 - 10 days

Groups

CTL - CTL

OPG - CTL

OPG - OPG

OPG - OPG

OPG

100 ng/ml

100 ng/ml

OPG

100 ng/ml

100 ng/ml

00221-92/81/60

FIG.22A

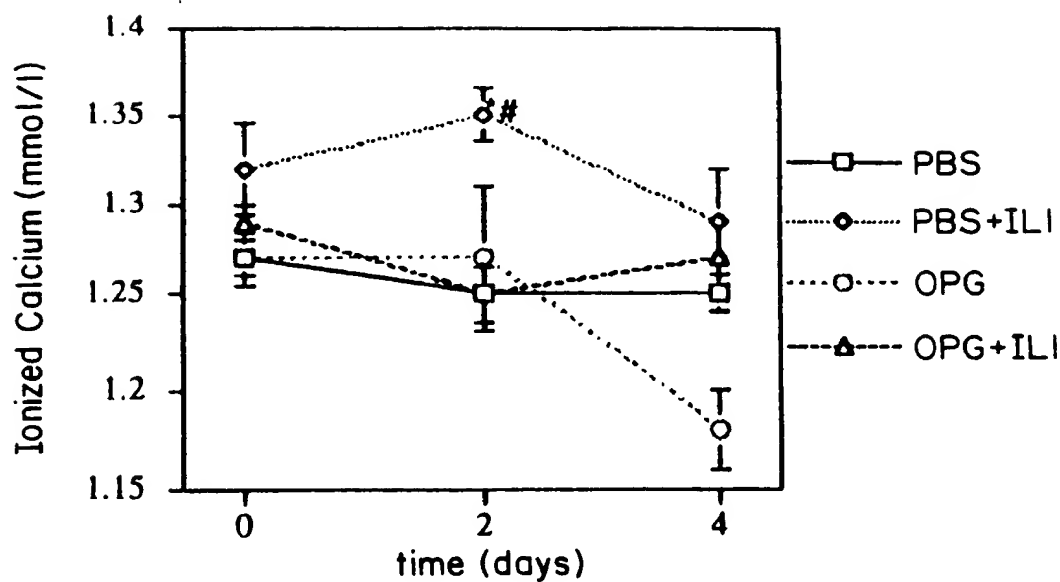
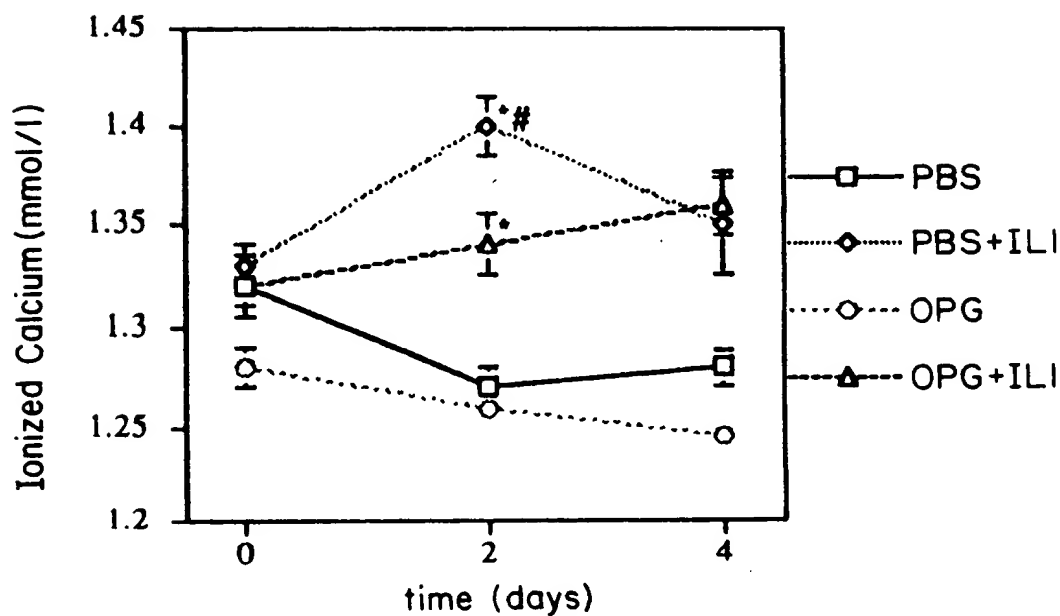


FIG.22B



* Different to PBS, $p < 0.05$

Different to OPG + IL1, $p < 0.05$

FIG.23A

PBS/PBS



FIG.23B

IL1/PBS

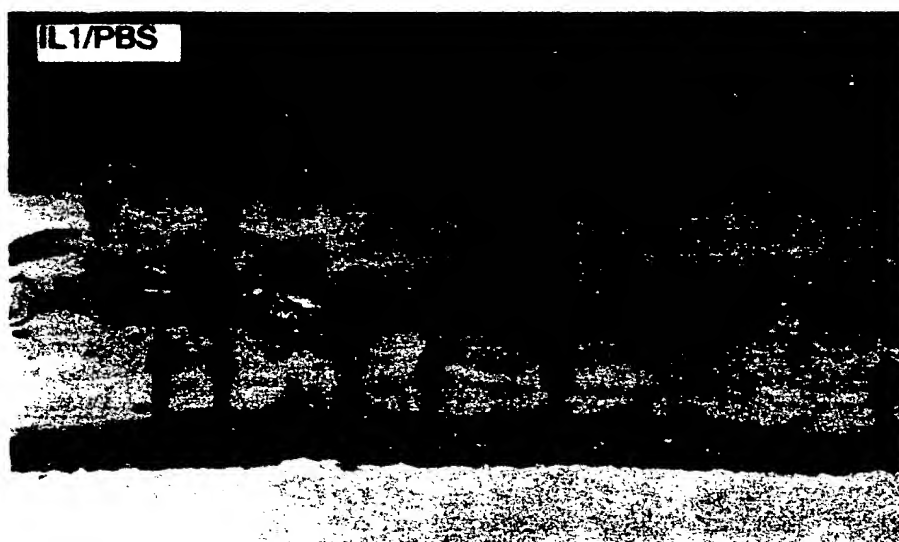


FIG.23C

PBS/OPG

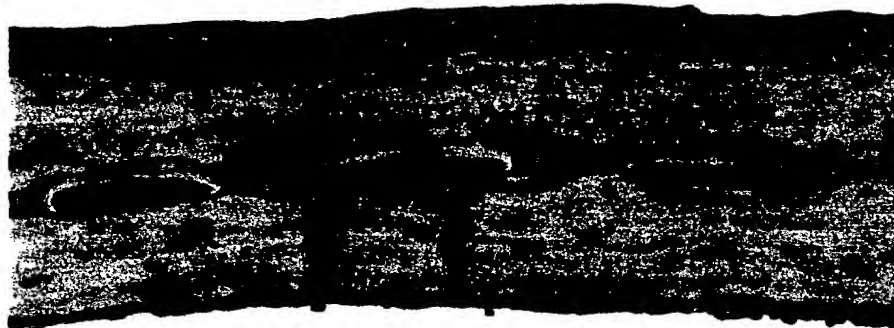
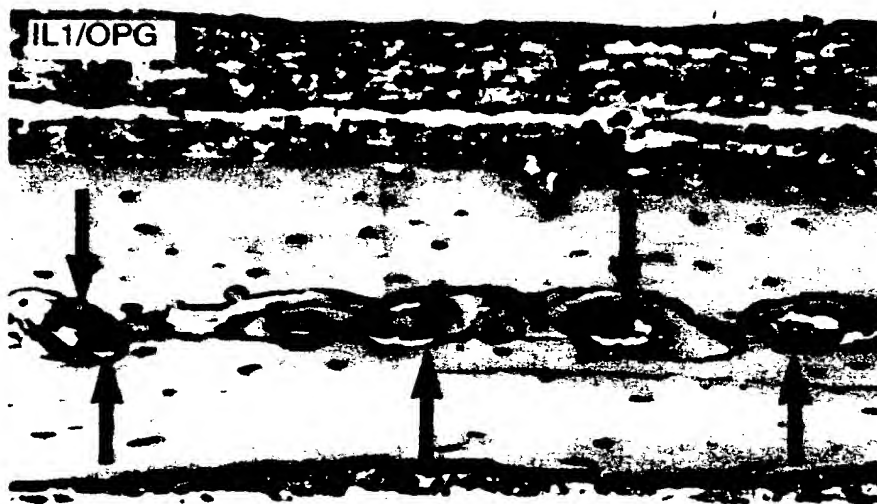


FIG.23D



09718725-11200

FIG.24A

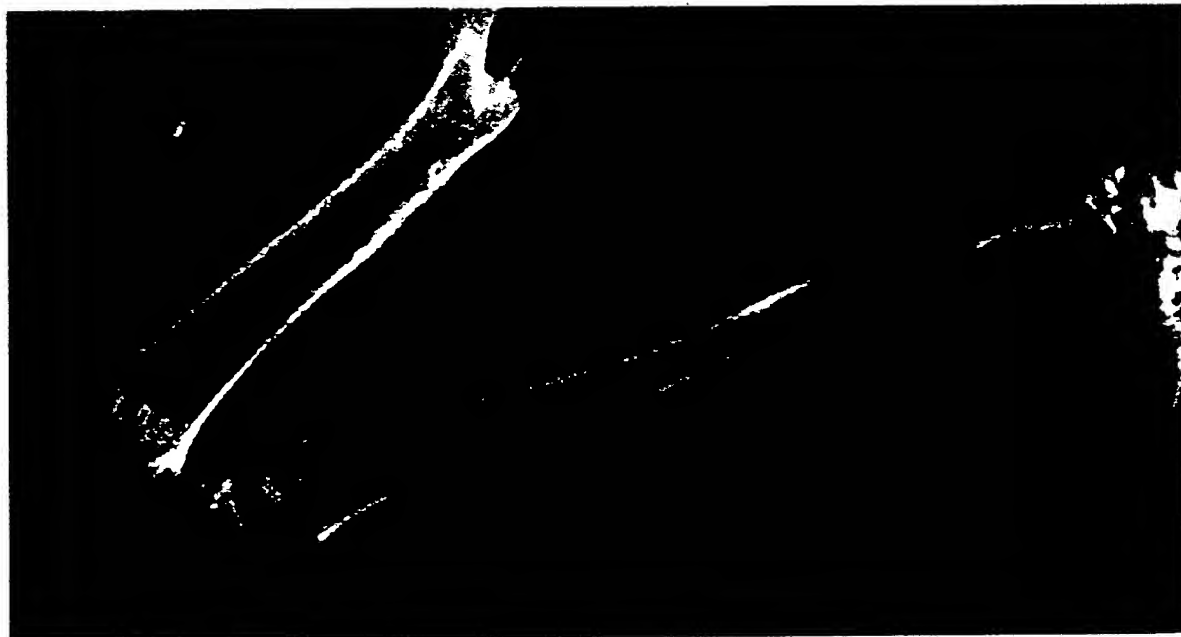
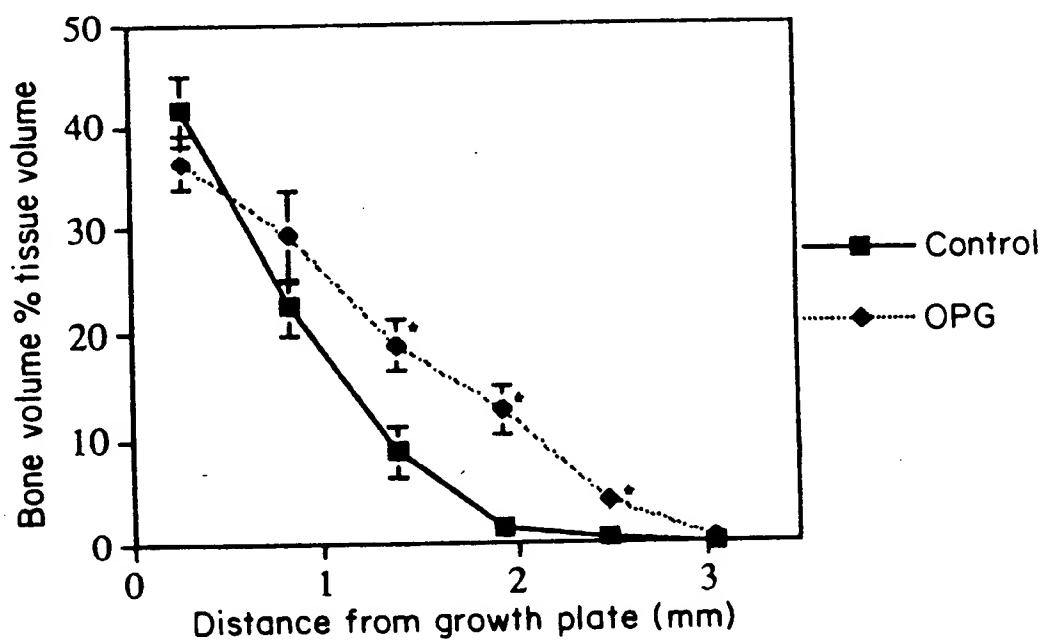


FIG.24B



FIG. 25



- * Different to control $p < 0.01$

002277" 52/87/60

FIG.26A



FIG.26.B



FIG.27

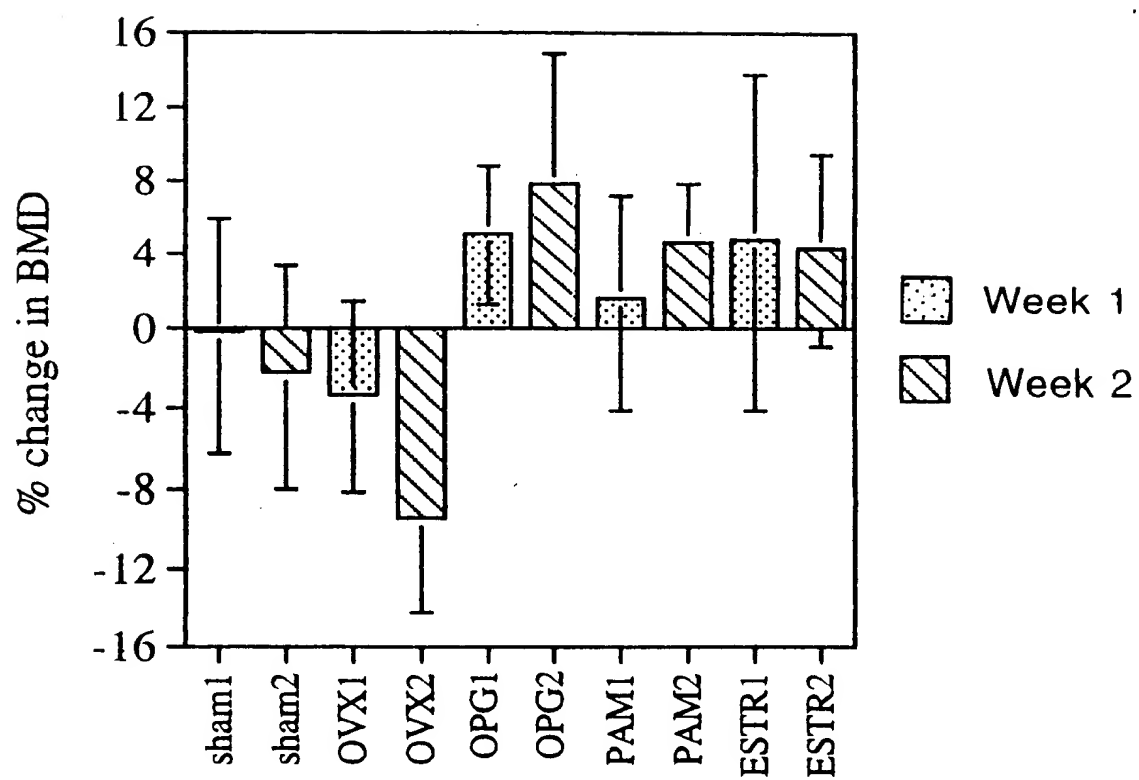
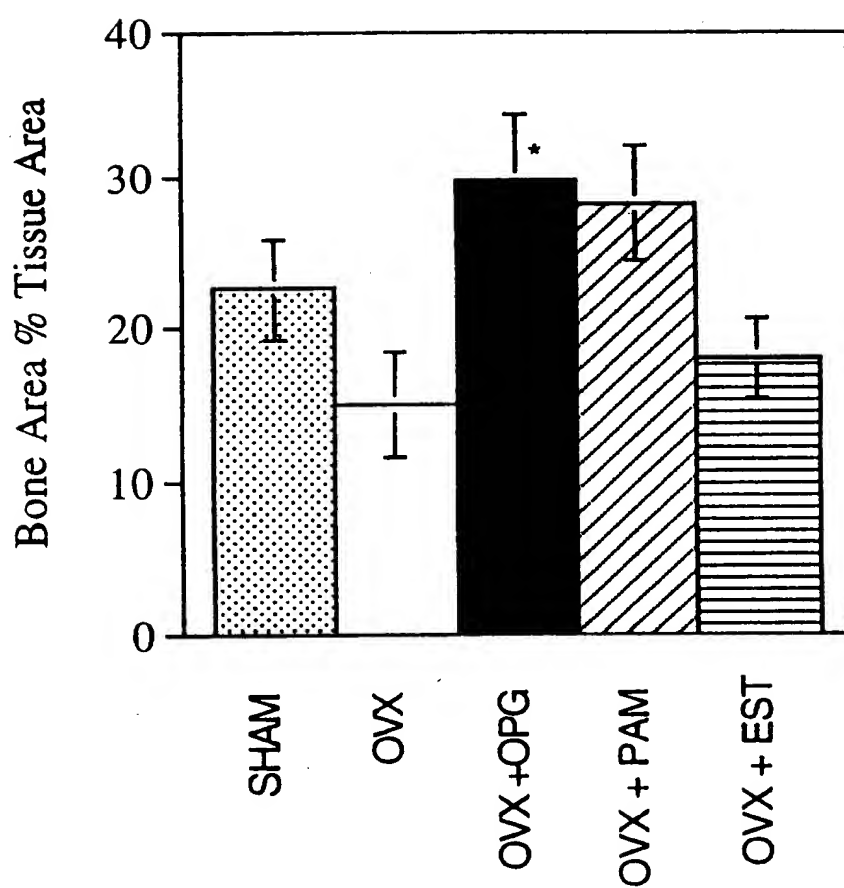


FIG.28



* Different to OVX $p < 0.05$